

19990731.qrp v01_n534.qrl.990731

Date: Sat, 31 Jul 1999 19:03:11 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1534

QRP-L Digest 1534

Topics covered in this issue include:

- 1) [46469] insulated vs bare wire
by ac5ez@webtv.net (Larry B)
- 2) [46470] FS - misc.
by "George Goodroe" <goodroe@worldnet.att.net>
- 3) [46471] Re: insulated vs bare wire
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 4) [46472] Re: wire antennas: dumb question...
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 5) [46473] Re: code CDs or mp3?
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 6) [46474] Gap antennas are vertical dipoles
by "rohre" <rohre@arlut.utexas.edu>
- 7) [46475] Re: insulated vs bare wire
by "George T. Baker" <w5yr@swbell.net>
- 8) [46476] Re: insulated vs bare wire
by david fouchey <dafouchey@home.com>
- 9) [46477] FS. NORCAL 40A KIT
by "The One and Only!" <mitch96@pobox.com>
- 10) [46478] Re: MAJOR STORM IN PROGRESS
by "William R. Colbert" <af852@rgfn.epcc.edu>
- 11) [46479] RE: CW and Musical Talent... a personal experience
by "Prof.Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
- 12) [46480] Re: LDG QRO tuner at QRP levels?
by Paul Erickson <paule@sfu.ca>
- 13) [46481] Qrp in the Parks?
by Doug <doug@wtp.net>
- 14) [46482] STORM UPDATE
by "Paul Harden, NA5N" <na5n@rt66.com>
- 15) [46483] Musicians,cw etc.
by Pete Burbank <plburbank@kih.net>
- 16) [46484] Re: wire antennas: dumb question...
by "dor" <elbc@pivot.net>
- 17) [46485] Nor cal 40a is sold
by "The One and Only!" <mitch96@pobox.com>
- 18) [46486] FW8ZZ dxpedition
by Bruce Rattray <rattray@gpfn.sk.ca>
- 19) [46487] Re: CW and Musical Talent... a personal experience (MEGA-LONG!)

- by "Randy Jouett" <rules@bellsouth.net>
- 20) [46488] Re: Musicians,cw etc.
by "Randy Jouett" <rules@bellsouth.net>
- 21) [46489] Radio Shack DMM
by "Alex" <aturner@netunlimited.net>
- 22) [46490] Re: wire antennas: dumb question...
by Drbob92031@aol.com
- 23) [46491] Re: Yet another kite & antenna question
by Drbob92031@aol.com
- 24) [46492] Re: OT: A Scam??
by N7YA@aol.com
- 25) [46493] Re: Happy,Happy!!!
by N7YA@aol.com
- 26) [46494] Re: CW and Musical Talent... a personal experience
by N7YA@aol.com
- 27) [46495] Re: Musicians,cw etc.
by N7YA@aol.com
- 28) [46496] Re: FW8ZZ dxpedition
by "Alan Kaul" <alan.kaul@worldnet.att.net>
- 29) [46497] Help with antennas for 80 meters.
by "Juan Jose Pastor Estornell" <juanjope@ctv.es>
- 30) [46498] fax hash
by barry kirkwood <bjk@ihug.co.nz>
- 31) [46499] Re: LDG QRO tuner at QRP levels?
by Arjen Raateland <Arjen.Raateland@vyh.fi>
- 32) [46500] Re: Musicians,cw etc.
by "Randy Jouett" <rules@bellsouth.net>
- 33) [46501] TiCK keyer info
by Monte Stark <ku7y@dri.edu>
- 34) [46502] [BoatAnchors] Y2K & Windows
by barry kirkwood <bjk@ihug.co.nz>
- 35) [46503] TEST
by Daniel Bartlett <ausham@rocknet.net.au>
- 36) [46504] Help / Advice
by NM5Mike@aol.com
- 37) [46505] Re: Help with antennas for 80 meters.
by John R Kirby <n3aaz-qrp@juno.com>
- 38) [46506] Re: FW8ZZ dxpedition
by "Alan Fryer" <n3bj@hotmail.com>
- 39) [46507] QRP Contesting: Aug '99 (Rev A)
by Ken Newman <N2CQ@citnet.com>
- 40) [46508] Re: LDG QRO tuner at QRP levels?
by Tom M <tjmc@erols.com>
- 41) [46509] Re: Musicians,cw etc.
by sergio <sruiz@bright.net>
- 42) [46510] Re: insulated vs bare wire AND ALPHA DELTA ANT WIRE
by "Earl Andrews" <earlve3ab@igs.net>
- 43) [46511] Re: OT: Musicians,cw etc.

- by "Kevin Asato" <kevin.k.asato@worldnet.att.net>
- 44) [46512] Re: LDG QRO tuner at QRP levels?
by Bob Nielsen <nielsen@primenet.com>
- 45) [46513] Re: insulated vs bare wire AND ALPHA DELTA ANT WIRE
by "Chuck Carpenter" <w5usj@globeco.net>
- 46) [46514] Re: insulated vs bare wire AND ALPHA DELTA ANT WIRE
by "Jerry Decker N5RV" <n5rv@hex.net>
- 47) [46515] Re: TiCK keyer info
by Bob Hightower <ki7mn@extremezone.com>
- 48) [46516] Re: Homebrew G5RV Biros
by KD1YV <jimkd1yv@snet.net>
- 49) [46517] Re: LDG QRO tuner at QRP levels?
by "dor" <elbc@pivot.net>
- 50) [46518] Heathkit Green
by Michael Bower <bowerm@ix.netcom.com>
- 51) [46519] Re: LDG QRO tuner and random wire ants
by "Marshall Emm" <mgemm@mtechnologies.com>
- 52) [46520] Re: OT: Large Verticals for Motorhomes
by w4bws@juno.com
- 53) [46521] Sierra Sold
by RON TODD <k4wz@bellsouth.net>
- 54) [46522] FW8ZZ
by Bruce Rattray <rattray@gpfn.sk.ca>
- 55) [46523] FS: Heathkit HW-8
by Jim Lowman <jmlowman@ix.netcom.com>
- 56) [46524] Re: Electrical Contact Goo?
by "Randy Jouett" <rules@bellsouth.net>

Date: Fri, 30 Jul 1999 18:28:10 -0500 (CDT)
From: ac5ez@webtv.net (Larry B)
To: qrp-l@Lehigh.EDU
Subject: [46469] insulated vs bare wire
Message-ID: <1364-37A2350A-5736@postoffice-113.iap.bryant.webtv.net>
Content-Disposition: Inline
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
MIME-Version: 1.0 (WebTV)
Content-Transfer-Encoding: 7Bit

Sergio

An old timer told me that if you use stranded wire it should be insulated and solid wire need not be. He said that uninsulated stranded would get wet and corrode in between the strands and movement (caused by wind for example) would create noise. This would not be a problem for solid wire , hence no insulation needed.

K1zw

Date: Fri, 30 Jul 1999 19:33:07 -0400
From: "George Goodroe" <goodroe@worldnet.att.net>
To: "Qrp-L@Lehigh.Edu (E-mail)" <qrp-l@Lehigh.EDU>, <cars@k4ksa.org>, <w4dug@onelist.com>
Subject: [46470] FS - misc.
Message-ID: <000301bedae3\$e39b7500\$d6e3fea9@ggoodroe>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

One last try before I trade them <grin>

MFJ 969 Deluxe Versa Tuner II Roller Inductor Tuner. 160M - 6M As new with manual \$120 OBO

Timewave DSP-9+ DSP unit. Voice/CW/Data like new with box and manual, \$135 OBO

Call home 727-578-2829 or work 800-330-0030 x122

Thnks and 73 de KF4CPJ
George Goodroe, QRP-L #1943
St. Petersburg, Florida USA
80 Meter high noise capital of the USA <grin>
<http://home.att.net/~goodroe>
<http://www.qsl.net/kf4cpj>

Date: Fri, 30 Jul 1999 19:27:31 -0500
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: <ac5ez@webtv.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [46471] Re: insulated vs bare wire
Message-ID: <006e01bedae3\$7b4769c0\$e137a497@aa5tb>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Larry,

I haven't heard that one before but I guess it's possible! I wouldn't worry about it.

Insulated wire may be less susceptible to rain static caused by charged drops hitting the bare wire (or so I've read). It may be important for something like a 300m long Beverage antenna or something. I've never noticed much difference between the two although I almost always used insulated wire since I have about a 1000' of it on a spool :-). Insulated wire antennas are required to be a little bit shorter to resonant due to the dielectric loading of the insulation. At HF you will not notice any difference in performance though.

73,

Steve Yates - AA5TB

Fort Worth, TX - EM12gs

<http://home.swbell.net/aa5tb>

Date: Fri, 30 Jul 1999 19:35:14 -0500

From: "Steve Yates, AA5TB" <aa5tb@swbell.net>

To: <sruiz@bright.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [46472] Re: wire antennas: dumb question...

Message-ID: <007b01bedaec\$8f3b0760\$e137a497@aa5tb>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Sergio,

Insulated wire will be fine for an HF antenna as long as you use a gauge that is strong enough. If you are using a resonant antenna such as a dipole, the physical length will come out to be just a little bit shorter due to the dielectric loading of the insulation. If the wire inside isn't hard drawn copper, which it probably isn't, expect some stretching over time. I use insulated wire all of the time.

If you want something to last many years though, I would suggest something like copper clad steel wire designed for antennas. The steel is for strength and the copper plating is for RF performance.

73,

Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://home.swbell.net/aa5tb>

Date: Fri, 30 Jul 1999 19:50:21 -0500
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: <hkelle@rhi.hi.is>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [46473] Re: code CDs or mp3?
Message-ID: <008a01bedae\$abf6c360\$e137a497@aa5tb>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Mp3 is great! It's easy to convert *.wav files to mp3 with Web available software. The latest Microsoft Media Player plays them well and so does many other available players . Mp3 file sizes are much, much smaller and my ears can't hear difference from the uncompressed *.wav files. I guess it just isn't universally known to hams yet. I would like to convert the files on my Web pages to mp3 but I don't know if the average ham could listen to them.

For away from the computer code practice CD-ROMs are still the king until more computer free players are available.

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://home.swbell.net/aa5tb>

Date: 30 Jul 1999 20:03:01 -0500
From: "rohre" <rohre@arlut.utexas.edu>
To: qrp-l@lehigh.edu
Subject: [46474] Gap antennas are vertical dipoles
Message-ID: <n1278757484.66478@msmailgw1.arlut.utexas.edu>

You asked about the Gap antenna line. Most of their models are verticals of a type used in South America for AM broadcast antennas, and known as an "asymmetric vertical dipole". This means, the two dipole halves are not

equally sized. One side must vary because of it being closer to earth. With the addition of linear decouplers, (stubs), for the bands desired; you have a vertical dipole on multiple bands.

Gap does a neat trick with the 25 foot long Titan, that I have. They enclose in the tubing a capacitor loaded coax stub, to make it resonate on 80M as well as all other bands 40M and WARC up to 10M. Perhaps the most clever thing is how resonance is obtained on 40M. There is a set of radial rods at the bottom that support a circle of wire. The 33 foot wire makes electrical contact with the end of one rod only, that joins it to the main antenna. The wire circle is not completely closed, but has a nylon string making the last few feet of the circle. Thus, you have a full size quarter wave 40M element in a much more compact area, and it seems to radiate just fine.

When I assembled my Gap, I used an antenna analyzer to see where each coupler was contributing a band resonance, and was mystified as to how 40M worked, as none of them resonated there! When I got the antenna up vertical and went to put on what looks like a kind of counterpoise wire circle, I found my 40M resonator in that wire.

Mine is up 6 feet, and works more DX than my dipoles, G5RV, etc. It is amazingly good on occasion into the next state, but it is low enough take off at six feet to be a good DX antenna in this location. I am sure with poor ground we have, (rocky) its dipole being independent of needing earth return radials is a plus. It is a two piece, balanced antenna, although it is an electrical balance, rather than equal dipole halves. What really is helping it out is the Fresnel region out some wavelengths from the antenna. There is a clear shot to Europe, and to Asia, and over the North Pole. However, there are hills to the South, but I still work all the way down South America very well to Chile/Argentina, and into the Carribean to the Southeast. There was no tune up required like the MFJ vertical, and only one measurement to set my desired 40M resonance.

No Gap I know of is a cloud warmer! The quarter wave verticals without radials may be cloud warmers when you do not have good RF earth under them, or sea water.

Gap has out an interesting new antenna, for the patio confined antenna farm. It is like the Force 12 compact dipole. They "squash" the dipole down and make a cage of the ends to load the thing. I have not worked any yet, but would be interested to hear how anyone has used one.

It is easy enough to make your own parallel vertical dipoles of wire, and one central support. You might try it. After I spent my money, I realized there are some opportunities like that going begging. I made a 27 foot PVC mast for 99 Field Day, that has possibilities for verticals, if you guy it well. It is pretty spindly as you raise it. (I was using it with my horizontal Vee beam leg and two back stay guys.)

Another antenna for all bands not to be overlooked is the inverted extended Double Zepp (IDEZ) I did for field day. With ladder line feed and a mast, it can be tuned on all bands. Of course, you have to have a big lot for it, for its legs are each 159 feet. That is one with lowest band of 80M, and if you make it only 159 feet overall, fed in middle, it is good 40M and up. Gives gain, and is cheap. Insulated ladder line is reasonable from all the antenna cable companies, and larger mail order ham stores. It seems to work as well as the true open wire, (uninsulated) ladder line that seems discontinued. Saxon did make it but its insulators did not stay on well.

I tried making my own of #24 wire and some plastic clips sold with two nails for holding down house romex wire. Take the nails out, and you have a ladderline insulator, but if your time is worth money, like most folks, you will soon tire of threading these little spaces onto the wires. Been there, made some, it worked, but was spindly and hard to handle. Give me the plastic covered type, and slightly more loss! I could never see any measurable loss with window line- the type most available in North America. (Check out the Wireman's web page.)

Antennas and QRP kits are the last refuge of the technically inclined hams, glad we have a lot of each to play with!

72, Stuart K5KVH

Date: Fri, 30 Jul 1999 20:05:30 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: aa5tb@swbell.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [46475] Re: insulated vs bare wire
Message-ID: <37A24BDA.AA3CEACA@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have always used insulated wire for antennas - guess I got my spool the same place that Steve did! - and prefer it if for no other reason than the added mechanical strength that it provides. This is especially important if the wire passes through tree branches or over tree limbs, etc. Since any HF wire antenna is going to have to be trimmed eventually, I find that the theoretical effect of the insulation on length to be a non-factor.

72/73, George AMA 98452 R/C since 1964

Amateur Radio W5YR, in the 53rd year and it just keeps getting better!

AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE ARS 10-X 33.2 N 96.6 W EM13RE

Date: Fri, 30 Jul 1999 21:19:30 -0400
From: david fouchey <dafouchey@home.com>
To: w5yr@swbell.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [46476] Re: insulated vs bare wire
Message-ID: <37A24F22.39349917@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I guess using hard drawn # 9 solid copper as me spoiled when putting up
antennas... Insulated or not doesn't seem to matter.

Dave
WA4EMR

"George T. Baker" wrote:

>
> I have always used insulated wire for antennas - guess I got my spool the
> same place that Steve did! - and prefer it if for no other reason than
> the added mechanical strength that it provides. This is especially
> important if the wire passes through tree branches or over tree limbs,
> etc. Since any HF wire antenna is going to have to be trimmed eventually,
> I find that the theoretical effect of the insulation on length to be a
> non-factor.
>
> 72/73, George AMA 98452 R/C since 1964
> Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
> AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
> QRP-L QRP-ARCI FISTS NORCAL ZOMBIE ARS 10-X 33.2 N 96.6 W EM13RE

Date: Fri, 30 Jul 1999 21:33:19 -0400
From: "The One and Only!" <mitch96@pobox.com>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [46477] FS. NORCAL 40A KIT
Message-ID: <37A2525F.256B6972@pobox.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The deal fell thru, so the norcal 40a kit is back on the selling block.

this is a wilderness norcal 40a, rev.b. no keyer (option from wilderness). i will include the cal tec course book, the electronics of radio, which uses the nc40a as the radio for the course.

120 bucks, and we split shipping.

thanks,

73, mitch ww4ml

Date: Fri, 30 Jul 1999 19:45:05 -0600
From: "William R. Colbert" <af852@rgfn.epcc.edu>
To: na5n@rt66.com, qrp-1@lehigh.edu
Subject: [46478] Re: MAJOR STORM IN PROGRESS
Message-ID: <37A25521.25B7EBB1@rgfn.epcc.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Thanks very much for the info, Paul. I guess this means not too good for QRPP operations tonite. Maybe it will enhance my 700mW, too.

--

"Politicians are like nappies. Both should be changed regularly -- and for the same reason"
"Scotsman - Scotsman's Diary 12/97"

Ray Colbert, W5XE, 00TC 3618, SOWP 1064M NCT2
(also w5xe@juno.com El Paso, (FAR WEST) TEXAS

Date: Fri, 30 Jul 1999 21:31:39 -0400
From: "Prof. Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
To: <qrp-1@LeHigh.edu>
Subject: [46479] RE: CW and Musical Talent... a personal experience
Message-ID: <000201bedaf6\$973b2bc0\$04000a0a@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

YES ! Musicians make better CW operators...
AND , they learn CW a lot faster too.

CL2NH one of my newbies at last year's
amateur license training program of my
radio club here in Havana is a professional
musician... He learned CW about three times
faster than the rest of the group (about
13 trainees) PLUS, his sending is simply
outstanding, and he really enjoys CW...

Our Third Class license test calls for a
5 wpm receive + transmit...

Nelson, CL2NH passed not only the 5 wpm
, but also the 10 and 15 wpm tests for
higher class licenses, but our regulations
call for a one year mandatory stay at
each class license for actual on the air
training.

Many other trainees that in one way or
the other had gone to music lessons, or simply
had a musical ear, have showed a much
faster learning curve, and they ALL seem
to enjoy CW much more than NON MUSICALLY
INCLINED amateurs !

Arnie Coro C02KK

e-mail:arnie@radiohc.org

e-mail:inforhc@mail.infocom.etecsa.cu

Postal address:

Prof. Arnaldo Coro Antich

La Torre no.127 entre 35 y 37

Nuevo Vedado, Plaza

Ciudad Habana , 10600

CUBA

Date: Fri, 30 Jul 1999 18:48:24 -0700 (PDT)
From: Paul Erickson <paule@sfu.ca>
To: Arjen.Raateland@vyh.fi
Cc: qrp-1@lehigh.edu (qrp)
Subject: [46480] Re: LDG QRO tuner at QRP levels?
Message-ID: <199907310148.SAA27701@fraser.sfu.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Hi Arjen,

I use my AT-11 at qrp levels with no problem, and no additional adjustment is required.

cheers, Paul VE7CQK/email: paule@sfu.ca

>

> Hi,

>

> I'm wondering if an LDG automatic tuner for QRO power could be used at
> QRP levels by making some sort of adjustment or change to the SWR
> sampling device. Perhaps somebody has made this kind of adjustment and
> can share his experience?

>

> I'd prefer the QRO version because of the more sturdy relays.

>

> 73, Arjen,

> OH2ZAZ

> --

> Arjen Raateland

> SAS Support

> Finnish Environment Institute, Helsinki

>

> AX.25: OH2ZAZ@OH2RBI.FIN.EU

>

>

Date: Fri, 30 Jul 1999 20:35:21 -0600

From: Doug <doug@wtp.net>

To: qrp-l@lehigh.edu

Subject: [46481] Qrp in the Parks?

Message-ID: <37A260E8.4E798B07@wtp.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

'Evening QRP'ers. I was off the list for a few days and lost track of the planned run to Parks for some hasty QSO's. Any date, time and freqs for this event? I'm just North of Yellowstone, so could be there mobile in an hour or so.

Doug, K7YD

Date: Fri, 30 Jul 1999 20:52:10 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-1@lehigh.edu
Cc: cqclist@cqc.org
Subject: [46482] STORM UPDATE
Message-ID: <Pine.SUN.4.10.9907302000360.24495-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Here's today Solar and Geomagnetic Activity report (RSGA) with some comments for those so interested.

> IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN
> AT MODERATE LEVELS. REGIONS 8645, 8649, AND 8651 WILL CONTINUE TO
> PRODUCE C-CLASS FLARES AND WILL BE THE LIKELY SOURCE FOR ISOLATED
> M-CLASS EVENTS.

These are regions on the sun that are more or less facing the earth right now. This means flares from these regions have a high likelihood of the particle radiation striking the earth to keep our magnetic field disturbed for a few more days.

> IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 29/2100Z TO 30/2100Z:
> THE GEOMAGNETIC FIELD WAS AT QUIET TO UNSETTLED LEVELS EARLY IN THE
> PERIOD BUT DISTURBANCES ASSOCIATED WITH RECENT CORONAL MASS
> EJECTIONS FIRST IMPACTED THE MAGNETIC FIELD AROUND 30/1000Z. ACTIVE
> TO MINOR STORMING LASTED THROUGH LATE IN THE PERIOD BUT MINOR TO
> MAJOR STORM CONDITIONS WERE EXPERIENCED AT MOST STATIONS FOLLOWING
> AN INTERPLANETARY SHOCK ARRIVAL AT 30/1948Z. THE SUDDEN IMPULSE (SI)
> MEASURED 89 NANOTESLA AND THE GOES-8 SATELLITE UNDERWENT A
> MAGNETOPOUSE CROSSING BETWEEN 30/2007Z - 2052Z.

The magnetopause is the sharp transition of our magnetic field where the field is strong on one side (the earth side) and weak on the other side. If you could look down on the earth from above and see our magnetic field, it would look like a boat speeding across a lake. The "bow shock" of the boat and trailing wake would be very similar to our magnetopause.

When a large shock wave from a solar flare hits our magnetic field, it wiggles our magnetic field by pushing against our magnetopause, generating huge electrical currents and hence noise on HF. A strong shock wave can

actually move our magnetopause inwards quite a distance. This is what happened today ... when the shock wave hit us, it compressed our magnetic field and moved our magnetopause so far inward, it moved passed the GOES-8 orbit. You can imagine the millions of amps of current such a movement of our magnetic field must have generated with such dramatic movement. This is called the dynamo effect ... generating electrical current by moving a conductor through a magnetic field (basic generator). In this case, it was the magnetic field that moved across the conductor (the earth).

Nifty little science fair project, eh?

> IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
> EXPECTED TO BE AT MINOR TO MAJOR STORM LEVELS WITH PERIODS OF SEVERE
> STORMING AT HIGH LATITUDES ON 31 JULY. CONDITIONS ARE EXPECTED TO
> IMPROVE TO ACTIVE CONDITIONS BY MID PERIOD.

Improved conditions, assuming no more flares over the next couple of days!
Severe storming in the higher latitudes means almost HF blackout conditions. Don't expect to work our friends in Alaska this weekend. On the otherhand, while they can't enjoy the bands, they will be able to enjoy some nice auroras (is my jealousy showing?)

> CLASS M 80/80/80 <---- an 80% chance of class M flares
> CLASS X 15/15/15 You think they're trying to tell us something???
> PROTON 10/10/10
> PCAF YELLOW <--- An alert for a likely POLAR CAP ABSORPTION
EVENT, highly absorbing HF signals from
Central Canada to the pole including Alaska
and Norway, Sweden, etc. for our friends in the other hemisphere.

> IV. PENTICTON 10.7 CM FLUX
> OBSERVED 30 JUL 206 <----- upper bands are open
> PREDICTED 31 JUL-02 AUG 205/205/200

> OBSERVED AFR/AP 29 JUL 006/010 <--- this is YESTERDAY's average
> ESTIMATED AFR/AP 30 JUL 025/024 <-- TODAY's average, but the storm did
not start until 2000UTC. Tomorrows
A-index should be quite large >40
> PREDICTED AFR/AP 31 JUL-02 AUG 040/040-015/015-008/008

A REFRESHER ...

The K-Index is a measure of our magnetic field (quiet to disturbed) and measured every 3 hours, and thus indicates current conditions. K<3 are quiet (good for QRP) while K=4-9 are disturbed/storm conditions.

The A-index is the average magnetic field condition over the past UTC day, and thus indicates what the conditions WERE around the planet.

Current predictions show the aurora dipping into extreme northern US, and seems most favorable for northern NY and New England. And of course most of Canada (duh!). Good viewing for our northern friends. The last time I saw a good glow in New Mexico's northern sky was when our lumber yard burned down.

72, Paul NA5N
National Radio Astronomy Observatory
Socorro, New Mexico

Makes no difference

----- Original Message -----

From: sergio <sruiz@bright.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Friday, July 30, 1999 6:36 PM
Subject: wire antennas: dumb question...

>
>
> does it make any difference if you use insulated versus non insulated
> wire for an antenna?
>
> i have some braided antenna wire (uninsulated) that i am trying to make
> into an antenna (it's antenna wire..) and it seems like it would be much
> easier to use insulate wire..
>
> anyone?
>
> --
> ---
> peace,
> sergio
> <http://www.bright.net/~sruiz> - "the village buzz"
> "quoting other people is really lame and unoriginal..." -sergio
>

Date: Fri, 30 Jul 1999 23:00:50 -0400
From: "The One and Only!" <mitch96@pobox.com>
To: qrp-1 <qrp-1@Lehigh.EDU>
Subject: [46485] Nor cal 40a is sold
Message-ID: <37A266E2.E1B43F2@pobox.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

gheezzzzzz that went quick!!!!!!
strike wile the iron is hot!!
now if i could find a omni "c" that quick!!
mitch

Date: Fri, 30 Jul 1999 21:16:49 -0600 (CST)

From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-1@LeHigh.EDU>
Subject: [46486] FW8ZZ dxpediton
Message-ID: <Pine.LNX.3.95.990730211426.26077A-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Anyone copied this dxpediton yet?....been tuning and nothing so far...would like to work them qrp on Wallis island....

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - 128 Durham Drive, Regina, SK.,
S4S-4Z2, Canada-AR Stamp Collector- "QRP! How sweet it is!"

Date: Fri, 30 Jul 1999 22:22:45 -0500
From: "Randy Jouett" <rules@bellsouth.net>
To: <inforhc@mail.infocom.etecsa.cu>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [46487] Re: CW and Musical Talent... a personal experience (MEGA-LONG!)
Message-ID: <01b201bedb04\$0d0ef9f0\$7166d6d1@spock>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

-----Original Message-----
From: Prof.Arnaldo Coro Antich <inforhc@mail.infocom.etecsa.cu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Friday, July 30, 1999 8:48 PM
Subject: RE: CW and Musical Talent... a personal experience

Hi Arnie/Gang,

>YES ! Musicians make better CW operators...
>AND , they learn CW a lot faster too.

I'd have to agree with this, Arnie. My father,
W5VXQ SK was a professional musican,
teaching Jazz, percussion, and orchestra at
the local university and in the highshool system.
He copied 50 to 60 WPM in his head no problem.

I play the guitar, trumpet, trombone, all percussion instruments, keyboard, and just picked up the harmonica, and I've never had a problem with CW.

Rather than having to type all this stuff all over again, I'll post a letter here that I wrote to the radio talk-show host and ham (anyone know his call?), Art Bell.

Art was talking to Wayne Green about all kinds of stuff, and Art & Wayne were wondering why CW was still being used. This is one portion of my response to their comments.

Here's another one for ya'... C.W. on the ham bands. Yes, it's an out-dated mode. Yes, it's a major roadblock to some when trying to upgrade to a higher level license. However, I believe that it's a necessary evil and here's a couple of reasons why.

First and foremost, CW transceivers are cheap and easy to construct. With all the radio kits out there, a new ham can get on the air and communicate for well under \$100. Yes, they won't have a 40-over S9 signal in Alaska, but, with a little work a patience, they'll have a lot of fun and talk to a lot of countries.

Also, CW doesn't take up a whole lot of radio spectrum. As I'm sure you are well aware, 4-to-5 CW conversations (if not more) can be handled in the same bandwidth as one single-sideband conversation. I won't even begin to mention FM :^).

I can hear you now, Art. "Yes, but you can say so much and get so much more across using the phone/voice modes." True. You won't get any arguments from me; however, believe it not, there are intelligent, full-blown conversations going on in the CW bands.

[It might take a little longer, but both parties don't seem to mind. :^)]

Here's another way to look at it. While you and your friends are shooting the breeze on 3.830, there are a bunch of us "don't have a clue" folks down on the CW portion of the band not interfering with your conversation :^). In other words, maybe

it might be a good idea to let sleeping dogs lie. :^)

[Art and Wayne both want to see CW hit the road without a pack of smokes, a cup of coffee, and a roll of toilet paper, of course :^) .]

Here's something else to think about, Art. If we did away with CW and opened up all of our radio frequencies to phone-only operation, all of those 4-to-5, 3-Khz CW conversations that were going on would now be taking up 10-to-15 Khz just using SSB. I won't even go into AM and FM. :^) Can you say band crowding and congestion?? I knew you could :) :).

Alright, it's time to play devil's advocate on myself. CW examinations are a complete and total discriminatory practice. CW requires two mental aptitudes, with the first being rhythm memory, also known as being able to "keep the beat" in the music world, and the second being pitch discrimination, as in being able to whistle or sing on key. These terms are not just thrown-around, made-up lingo. They are definitive terms created by a well known scientific organization known as The Human Engineering Laboratory, and also known as The Johnson Oconnor Research Foundation.

Basically, they measure a persons aptitudes using the scientific method and have done so since the thirties for Fortune 500 companies and in-the-know individuals. These tests aren't even close to the tests you get in high school or college. They are comprehensive examinations, held over a 3-or-4 day time frame, measuring things such as being right or left eyed, idea flow, imagination, three-dimensional thinking, and a TON of other things. Anywho, I'd be willing be bet the wife, kids, house, dog, computer, radio equipment, and mistress (I'll keep the beer refrigerator, thanks :)), that ALL of the people out there having problems with the code lack these aptitudes. I'm sure that Wayne doesn't want to hear something like this, because it sure in the heck doesn't sell his code tapes. But facts are facts, Art, and these people deal in scientific facts. By the way, how about doing a show with the CEO of their company?

[Gang, you'll love the next part. Art never replied to this letter and says that he won't on his talk show, because he gets thousands of e-mails a day]

Art, have you ever asked yourself, "Self, what ever happened to the good old days of ham radio where people were building their own radios, antennas and accessories, fixing their own equipment, and were really curious about learning the technical aspects of

radio." Well, they are alive and doing VERY well in the QRP world. These guys are designing and building radios, antenna tuners, and all sorts of kits, holding contests -- you name it! They've even started their own clubs. Some clubs, such as The Northern California QRP Club (NorCal. Look for them on the web) have even gone so far as to put together 20 Mtr CW kits and give them to third-world country hams free of charge.

By the way, a lot of DX countries couldn't be worked unless CW was being used. Although I'm sure that it's hard for a lot of US hams to believe, a large portion of hams in the world don't speak English, although they have learned to send a limited version of English via Morse code. God help us if we do away with Morse code and we have to listen to each other's accents on radio telephone. :) . Oh. For the record, Art, I'm an avid SSB user. Alright. Enough of that noise. To quote Pink Floyd, "Let's get on with it."

And I went on to discuss some other "WEIRD" stuff that Art and Wayne were talking about. So, what you guys think?

72/73,

Randy Jouett, AB5NI

Date: Fri, 30 Jul 1999 22:37:34 -0500
From: "Randy Jouett" <rules@bellsouth.net>
To: <plburbank@kih.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [46488] Re: Musicians,cw etc.
Message-ID: <01bd01bedb06\$2169ef70\$7166d6d1@spock>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Pete Burbank <plburbank@kih.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, July 30, 1999 10:00 PM
Subject: Musicians,cw etc.

Hi Pete/Gang,

>Musicians also are able to be excellent programmers....
>>From Peanuts..."Never marry a musician".
>73 Pete NV4V vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv

Yep. Our North American friends, the Canadians, did a study on this around 20 years ago at the University of Waterloo. They found out that the aptitudes for programming were music, English writing skills (name your language for DX :^)), and math.

An interesting side note: there's a company out in California (San Francisco Bay Area) that used to hire a programmer on the spot if they could show them that they could play a musical instrument decently. Anyone out there remember the name of the company? I read this around 18 years ago on the Usenet and forgot the name of the company. Must be old age catching up; I turn the big 40 in November :^).

72/73,

Randy Jouett, AB5NI

Date: Fri, 30 Jul 1999 23:50:22 -0400
From: "Alex" <aturner@netunlimited.net>
To: <qrp-1@lehigh.edu>
Subject: [46489] Radio Shack DMM
Message-ID: <000e01bedb07\$d17c7080\$a729f3d0@pentium-ii>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Noticed that RS has put their digital multimeter 22-168 on sale for \$89.99, normally 129.99. I have one of these and have found it to be very useful. Checks caps, transistor hfe, diodes, and has an interface to ur PCs

serial port and comes with cable and software that allows logging and a remote large scale meter face and a scope function, though limited works. Oh yeah, measures frequency up to 20mhz.

N4BYJ

Date: Sat, 31 Jul 1999 00:02:15 EDT
From: Drbob92031@aol.com
To: sruiz@bright.net, qrp-1@lehigh.edu
Subject: [46490] Re: wire antennas: dumb question...
Message-ID: <c506e412.24d3cf47@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Sergio;
I have used both and don't see any difference. I imagine that the one that will stay up the longest is the way to go.
72/73 good luck de WA2EAW...Bon

Date: Sat, 31 Jul 1999 00:08:55 EDT
From: Drbob92031@aol.com
To: sslyon@worldnet.att.net, qrp-1@lehigh.edu
Subject: [46491] Re: Yet another kite & antenna question
Message-ID: <5a59de93.24d3d0d7@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

A kite or balloon antenna will develop a very respectable static charge. I don't recall the exact figures but it's enough to make you TAKE PRECAUTIONS. The antenna should be grounded. I found that a substantial resistor in the 100K range to ground will do the job. If you want to make sure it's working you can put a small dial light bulb in series between the resistor and ground and watch the bulb blink at each "bleed off".
72/73 de WA2EAW...Bob

Date: Sat, 31 Jul 1999 00:16:33 EDT
From: N7YA@aol.com

To: qrp-1@lehigh.edu
Subject: [46492] Re: OT: A Scam??
Message-ID: <3ed8ac9.24d3d2a1@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 7/30/99 8:25:33 AM Pacific Daylight Time, n2tpa@juno.com writes:

<< I just Received a phone call offering me a credit card. The person calling said she was from the "American Amateur Radio Association" of Belgrade, ME. Having never before heard of this organization, I declined.

Is the AARA a legitimate organization, or a phony set up to sell credit cards?

>>

Hi Bill, I have a suspect feeling that these are what i call "theme thieves". they probably found a database of hams and their phone numbers, and did the obvious thing....played to your passion. Ive worked in a boiler room phone sales operation before based here in Vegas back in the mid 80's (i was broke and young). we would say just about anything to make the sale, i even promised someone a new car in exchange for their credit card number....even being young and broke, 2 weeks of that garbage left me feeling like a scumbag so i quit. but there a few operations still out there that dont mind robbing the elderly or unsuspecting consumer of anything they can get.

Im not saying that the people who called you are running that type of operation...but, like you, ive never heard of them and it still sounds suspect to me.

Good move on declining the offer.....sorry for my OT answer, its just important info in case others receive a call like that. Thanks for telling us about it.

73...Adam, N7YA

Date: Sat, 31 Jul 1999 00:28:27 EDT
From: N7YA@aol.com
To: qrp-1@lehigh.edu
Subject: [46493] Re: Happy,Happy!!!
Message-ID: <67e76ccd.24d3d56b@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 7/30/99 1:18:47 PM Pacific Daylight Time,
osier@northnet.org writes:

<< Yesterday got 5A1A in the mail....then today T30R.....

Now at 195 confirmed.....just a Tech-Plus here so Im enjoying
all the DX I can get on 10 meters...Hope September brings good
condx!!!!

>>

Nice job!!! 195 confirmed as a tech plus is inspirational....i still need
5A, but theres lots of good DX out there to be worked with low power...the
last log entries, NH6D/KH3 on Johnston atoll and CY9CWI on St. Paul
island...both new ones.....get 'em while the bands are good.

Georges post should be convincing enough....get on HF and log some new
ones!!

73...Adam, N7YA

Date: Sat, 31 Jul 1999 00:47:18 EDT
From: N7YA@aol.com
To: qrp-1@lehigh.edu
Subject: [46494] Re: CW and Musical Talent... a personal experience
Message-ID: <6ebd0ad1.24d3d9d6@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 7/30/99 6:47:54 PM Pacific Daylight Time,
inforhc@mail.infocom.etecsa.cu writes:

<< YES ! Musicians make better CW operators... >>

I just had to chime in here. ive been a musician for more than 20 years, i
play several instruments and sing fluently, i am also a song composer.....i
enjoy CW and use it exclusively, i think there really IS a tie-in here.

One of my more memorable qso's was with Eric, AC6NT. he was an avid qrp'er
and a talented CW op. when i worked him, we were running about 30 wpm...i
was using a straight key, and he was as clean as Martha Stewarts kitchen. as
it turned out, he was Niel Sedakas keyboardist and musical director. he was
operating from his room at the Sands here in Vegas, he had a wire hanging out
of the window and was loading it up for 20. im sure this was the last ham
radio operation to take place at this hotel....it was imploded for a movie 2
weeks later.

I have the card in the frame with my other memorable cards. I believe we
can hear rhythm in the code naturally...its like playing music (CQ is very
musical). is it any wonder bugs and keys are called "instruments"? they say

music relieves stress and is good for the soul....no wonder we have so many old timers in ham radio. :-)

73...Adam, N7YA

Date: Sat, 31 Jul 1999 00:56:27 EDT
From: N7YA@aol.com
To: qrp-l@lehigh.edu
Subject: [46495] Re: Musicians,cw etc.
Message-ID: <fb6e72d4.24d3dbfb@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 7/30/99 8:40:02 PM Pacific Daylight Time, rules@bellsouth.net writes:

<< An interesting side note: there's a company out in California (San Francisco Bay Area) that used to hire a programmer on the spot if they could show them that they could play a musical instrument decently. >>

Sheesh!! what am i doing still working on cabinets??

73...Adam, N7YA

Date: Fri, 30 Jul 1999 22:19:18 -0700
From: "Alan Kaul" <alan.kaul@worldnet.att.net>
To: <rattray@gpfn.sk.ca>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [46496] Re: FW8ZZ dxpedition
Message-ID: <19990731051831.WACR8676@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

FW8ZZ reported on LA DX Packet Cluster at approx 0450z, 31/July transmitting approx 14200 SSB and working stations UP (allegedly had a QSO with the US end transmitting on approx 14218).

Split operation makes it easier for QRP-ers not to get clobbered by the QRO guys. Good luck!

Alan Kaul, W6RCL, LaCanada-Flintridge, CA
url: <http://alan.kaul.home.att.net/>
e-mail: w6rcl@amsat.org

Date: Fri, 30 Jul 1999 16:23:02 +0200
From: "Juan Jose Pastor Estornell" <juanjope@ctv.es>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [46497] Help with antennas for 80 meters.
Message-ID: <000701bedb14\$5f647300\$809019d4@juanjopectv>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

Dear QRP-L friends,

I need information about antennas for 80 meters that could fit in my 9 x 16 terrace. By now I ve tried the magnetic loop, the 10 ft tuned stick and the "helicoidal vertical" (something like the "screwdriver" antenna, I guess) with no success, but maybe I am doing it badly I cannot put up a 30 ft mast nor big radial wires (without bending them to fit in my small terrace). I ve even browsed L.B. s site without founding any light for clearing my problem!. Any help (via direct, via list, URLs to hunt for information and so on ...) will be appreciated. Thanks in advance.

73, 72 de Juanjo, EC5ACA/QRP. EA-QRP #104, G-QRP #9742, QRP-L #1662.

Date: Sat, 31 Jul 1999 17:54:20 +1200
From: barry kirkwood <bjk@ihug.co.nz>
To: qrp-l@Lehigh.EDU
Subject: [46498] fax hash
Message-ID: <199907310554.RAA19690@smtp1.ihug.co.nz>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Was on this reflector bleating about terrible hash transmitted down telephone line from Panasonic fax/telephone/answer machine.

Tried passing telephone cord thru all manner of toroids in all manner of combinations with zero success.

At electronics surplus in town came upon split ?ferrite cubes about 1in on

side with approx 5/8 in hole for about \$US 1.20. Ran about 6 turns of phone cored thru the ferrite close to the machine as poss. Result: absolute zero hash MW thru VHF!

Incidentally, apart from its rf tx ability, the machine itself has performed faultlessly for several years.

73 Baz ZL1DD
end
Barry (Baz) Kirkwood PhD ZL1DD ex ZL1BN, ZL40K etc
Signal Hill
66 Cory Road
Palm Beach
Waiheke Island 1240
NEW ZEALAND
www.waiheke.co.nz/signal.htm
Ph/Fax 64-9-372-5161

Date: Sat, 31 Jul 1999 06:24:36 +0000
From: Arjen Raateland <Arjen.Raateland@vyh.fi>
To: qrp <qrp-l@lehigh.edu>
Subject: [46499] Re: LDG QRO tuner at QRP levels?
Message-ID: <37A296A4.3E65@vyh.fi>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Thanks gang!

Lots of replies via direct email. Everybody (=100%) agreed that the LDG AT-11 autotuner (QRO model) will work OK at QRP levels as is without mod's. One of the respondents tested on 40 m and found it would stop working at 300 mW. I thought I let the rest of you know.

I didn't ask in my original message, but it would be interesting to know if any of you uses this tuner with a open line feed with/without balun.

My only HF antenna is just that, a 2x20m doublet with 20 m open line. My present tuner, fully balanced with large components (Annecke), probably can't be beat, but tuning by hand on the lower bands is slow

tnx es 73,
Arjen, OH2ZAZ

--

Arjen Raateland
SAS Support
Finnish Environment Institute, Helsinki

AX.25: OH2ZAZ@OH2RBI.FIN.EU

Date: Sat, 31 Jul 1999 01:35:21 -0500
From: "Randy Jouett" <rules@bellsouth.net>
To: <N7YA@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [46500] Re: Musicians,cw etc.
Message-ID: <020a01bedb1e\$f905c7c0\$7166d6d1@spock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: N7YA@aol.com <N7YA@aol.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, July 30, 1999 11:57 PM
Subject: Re: Musicians,cw etc.

>In a message dated 7/30/99 8:40:02 PM Pacific Daylight Time,
>rules@bellsouth.net writes:
>
><< An interesting side note: there's a company out in California
> (San Francisco Bay Area) that used to hire a programmer on
> the spot if they could show them that they could play a musical
> instrument decently. >>
>
>Sheesh!! what am i doing still working on cabinets??

Good question :^), although wood working is a fun thing to
do, too, and a lot of us QRP-Lers would appreciate it if
you would give us a couple of shop tips, which would
give us a better chance of making a good looking, wooden
enclosure :^). Pecan and mahogany are both going
through the roof (price wise) down here in Louisiana
and Texas, btw!

If you are seriously considering joining us programming

geeks of the world, Adam, you could do a search of Deja News and see if you can find the name of the programming company that hires musicians. I remember reading about this in the 80's. Hmmm. I could have read that on BIX (old techno-geek haven/network), come to think of it. Give it a shot, and let me know what you find out. If you don't find it on Deja News, then it was probably on BIX. Oh, well. I tried! :^).

72/73,

Randy Jouett, AB5NI

P.S.

I'll be anything that the 16-year old kid that won the CW contest at one of the QRP get-togethers was an "EXCELLENT" musician.

Date: Fri, 30 Jul 1999 23:38:13 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: Low Power Amateur Radio <qrp-l@Lehigh.EDU>
Subject: [46501] TiCK keyer info
Message-ID: <Pine.GS0.4.10.9907302324190.12820-1000000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

I just wanted to tell a little story about something very nice being done by a vendor to help QRP/QRPers.

When Doug Hendricks was in New York he took the time to see Brad and Gary of Embedded Research. Before he left, Brad and Gary GAVE him 50 TiCK-2B keyers!

To top that off, they included a battery holder and the batteries! Heck, they even included the solder!

This is a little tiny CMOS keyer using surface mount parts.

Now here is the deal.....they told Doug to GIVE ALL 50 AWAY FREE to anyone who would build one at the Ft. Tuthill hamfest!

Someone set up some soldering stations and most of the day Friday there were people making their keyers!

This was to introduce people to surface mount. A small kit that is usfull and at the same time easy and fast to make. We all came away with a good feeling that we REALLY CAN do some work with those little parts!

All the keyers I know about worked before ever leaving the building and most worked the first time they were powered up!

Thanks to Brad and Gary for the gifts and to Doug for bringing them all the way out west for us to play with!

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Sat, 31 Jul 1999 20:31:37 +1200
From: barry kirkwood <bjk@ihug.co.nz>
To: qrp-l@Lehigh.EDU, Majordomo@qth.net, quantum.learning@extra.co.nz, robson_alan@hotmail.com, russell@waiheke.co.nz, closer9@hotmail.com, z12kh@taranaki.ac.nz, s.pockett@auckland.ac.nz, viviana@globalnet.co.uk, rpotts@ihug.co.nz, webmalak@mtxlink.co.nz, wwroof-nz@extra.co.nz
Subject: [46502] [BoatAnchors] Y2K & Windows
Message-ID: <199907310831.UAA05656@smtp1.ihug.co.nz>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>X-From_: owner-boatanchors@ns3.qth.net Sat Jul 31 16:21:18 1999
>Return-Path: owner-boatanchors@ns3.qth.net
>From: JCStott@aol.com
>Date: Sat, 31 Jul 1999 00:00:59 EDT
>Subject: [BoatAnchors] Y2K & Windows
>To: r-390@qth.net, boatanchors@qth.net, TEST-EQUIPMENT@qth.net
>Sender: owner-boatanchors@qth.net
>Reply-To: JCStott@aol.com
>
>Check this out.

>
>Small problem and fix for a Y2K glitch
>
>THIS COMES FROM LEMOND IRVIN, Technical Support Staff at Research
>Curriculum Unit at Mississippi State University
>PLEASE DO THIS ON YOUR COMPUTER.
>1. Double click on "My Computer".
>2. Double click on "Control Panel".
>3. Double click on "Regional Settings" icon.
>4. Click on the "Date" tab at the top of the page. Where it says, "Short Date
>Sample", look and see if it shows a "two digit" year. Of course it does.
>That's the default setting for Windows 95, Windows 98 and NT.
>This date RIGHT HERE is the date that feeds application software and WILL NOT
>rollover in the year 2000. It will roll over to 00.
>5. Click on the button across from "Short Date Style" and select the option
>that shows, mm/dd/yyyy. (Be sure your selection has four Y's showing, not two)
>6. Click on "Apply" and then click on "OK" at the bottom.
>
>Easy enough to fix. However, every single installation of Windows worldwide
>is defaulted to fail Y2K rollover.
>How many people know about it?
>How many people know to change that?
>What will be the effect? Who knows.
>
>---
>Submissions boatanchors@qth.net
>
>
end
Barry (Baz) Kirkwood PhD ZL1DD ex ZL1BN, ZL40K etc
Signal Hill
66 Cory Road
Palm Beach
Waiheke Island 1240
NEW ZEALAND
www.waiheke.co.nz/signal.htm
Ph/Fax 64-9-372-5161

Date: Sat, 31 Jul 1999 18:38:30 +1000
From: Daniel Bartlett <ausham@rocknet.net.au>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [46503] TEST
Message-ID: <01BEDB83.E40E6560@rocknet>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Date: Sat, 31 Jul 1999 04:54:31 EDT
From: NM5Mike@aol.com
To: qrp-l@lehigh.edu
Subject: [46504] Help / Advice
Message-ID: <726fd795.24d413c7@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello all:

I have recently completed a couple of Vectronics kits and am looking for some help/advice.

The kits I have recently constructed are the 20 meter QRP CW transmitter, model VEC-1220K, and the matching 20 meter receiver model number VEC1120K. Individually, they seem to be operating properly, as I have worked several stations using the 1220K transmitter (1.2 watts out) with my FT1000 as the receiver. The VEC 1120K receiver hears well, as I was able to copy several European stations on 20 CW without any difficulty.

When I try to use the Vectronics transmitter and receiver together, I notice a problem. I am unable to hear my CW signal in the receiver when I transmit as a result of overload I suspect, therefore it is difficult to align the receive frequency with the transmit frequency. What I do hear is buzzing across the band when I transmit. This does not change as the RF gain is adjusted on the receiver. The transmitter has a receiver connector that mutes the receiver's connection to the antenna during transmit.

Can someone suggest how I may solve this problem?

Regards,

Eric / NM5M,

QRP-L 1824

ARCI 9901

Past Operations: 9Q5M, E35A, BY1QH, 4U1ITU, CU3URA, V26B, XE2FU, 6D2X

Date: Sat, 31 Jul 1999 07:03:36 -0400
From: John R Kirby <n3aaz-qrp@juno.com>
To: juanjope@ctv.es, qrp-1@Lehigh.EDU
Subject: [46505] Re: Help with antennas for 80 meters.
Message-ID: <19990731.070632.-187971.0.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Juanjo,

> I need information about antennas for 80 meters that could fit in my
> 9 x 16 terrace.

I have had very good results with the Ham Stick antenna
configured as a >dipole< (No radials or counterpoise required).

The Ham Stick is a resonant antenna
and (by nature) has a narrow bandwidth.
Changing the configuration "moves"
that narrow resonant bandwidth "a bunch".
Pruning the Ham Stick is best done with
a MFJ-259 or equivalent.
A grid dip meter should also work.

The Ham Stick configured as a >vertical dipole<.
For support slide the "cold side" of the dipole
into a section of 1/2 or 3/4 inch PVC and
viola a vertical dipole. . .
again NO ground plane or radials required. . .
Want more height?
Just add another section of PVC.

73
John
N3AAZ
FM19xa

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!

Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Sat, 31 Jul 1999 04:12:21 PDT
From: "Alan Fryer" <n3bj@hotmail.com>
To: rattray@gpfn.sk.ca
Cc: qrp-1@lehigh.edu
Subject: [46506] Re: FW8ZZ dxpediton
Message-ID: <19990731111221.45448.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Bruce

Just worked them on 40M about 6:45 AM Eastern. They're on 7005, listening up 5, working JA, Ws, everybody. Good sig here in VA, worked 'em with 10W out of the K2.

Have a good one

-----Original Message Follows-----
From: Bruce Rattray <rattray@gpfn.sk.ca>
Reply-To: rattray@gpfn.sk.ca
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: FW8ZZ dxpediton
Date: Fri, 30 Jul 1999 21:16:49 -0600 (CST)

Anyone copied this dxpediton yet?....been tuning and nothing so far...would like to work them qrp on Wallis island....

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - 128 Durham Drive, Regina, SK.,
S4S-4Z2, Canada-AR Stamp Collector- "QRP! How sweet it is!"

Get Free Email and Do More On The Web. Visit <http://www.msn.com>

Date: Fri, 30 Jul 1999 13:16:46 -0400
From: Ken Newman <N2CQ@citnet.com>
To: epaqrp-1@lehigh.edu, QRP-L@lehigh.edu, njqrp@njqrp.org
Subject: [46507] QRP Contesting: Aug '99 (Rev A)
Message-ID: <3.0.6.32.19990730131646.008049a0@mail.citnet.com>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

QRP Contesters,

This version includes the "Michigan Challenge" and the "QRP NJ QSO Party", both QRP contests, but not included in the earlier version. These are going to be good ones too!

Are you ready to be a BUBBA? Go portable in the CQC Summer QSO Party for heat training before the BUBBA Sprint comes up! Both should be fun inside or out.

There are several good ones this month with QRP Category. The MD/DC Party and the Ohio Party can be fun with QRP since they can be reached easily. Ohio Party with QRP allows a 5 times multiplier for a high score. Real competition with the QRO Bunch!

I plan to include only QRP contests unless there isn't any on a weekend or it is a VERY BIG ONE.

Don't forget the reliable ARS Spartan Sprint on the first Monday evening of *EVERY* month.

72 de Ken - N2CQ

QRP CONTEST CALENDAR

August 1999

Georgia QSO Party (CW/SSB) ... QRP Category

Jul 31 - 1800z to Aug 1 - 0359z

Aug 01 - 1400z to Aug 1 - 2359z

Rules: <http://www.contesting.com/secc/GaQsoParty.htm>

QRP ARCI Summer Daze SSB Sprint (SSB) *** QRP CONTEST! ***

Aug 01 - 2000z to 2400z

Rules: <http://www.qrparci.org/sumdaz.htm>

Adventure Radio Spartan Sprint (CW) *** QRP CONTEST! ***

Aug 3 - 0100z to 0300z

Rules: http://www.natworld.com/ars/pages/spartan_sprints/ss_rules.html

~~~~~

North American QSO Party (CW) ... QRP Interest

Aug 7 - 1800z to Aug 8 - 0600z

Rules: <http://www.waterw.com/~ncj/naqso.htm>

~~~~~

Maryland/DC QSO Party (SSB/CW) ... QRP Category

Aug 14 - 1600z to Aug 15 - 0400z

Aug 15 - 1600z to Aug 15 - 2300z

Rules: <http://www.qsl.net/w3cwc/mdcqso.htm>

~~~~~

North American QSO Party (SSB) ... QRP Interest

Aug 21 - 1800z to Aug 22 - 0600z

Rules: <http://www.waterw.com/~ncj/naqso.htm>

~~~~~

Michigan Challenge (CW) *** QRP Contest ***

August 21 - 1600z to 2000z

Rules: <http://www.tir.com/~k8dd/miqrp.htm>

~~~~~

QRP NJ QSO Party (CW/SSB) \*\*\* QRP Contest \*\*\*

Aug 21 - 2000z to Aug 22 - 0700z

Aug 22 - 1300z to Aug 23 - 0200z

The NJ QSO Party NOW has a QRP Contest sponsored by NJ QRP Club.  
Use the rules for the NJ QSO Party and add 100 pts per QSO

with WQ2RP, the club station, for your score.  
Send logs by QRP stations to NJ QRP Club at N2CQ@ARRL.NET  
or by mail to Ken Newman, 81 Holly Drive, Woodbury, NJ 08096.  
Awards for QRPers will be provided by NJQRP. You may also enter  
a log to the Englewood ARA, sponsor of NJ QSO Party, seperatly.

~~~~~  
NJ QSO Party (CW/SSB) ... NOT QRP

Aug 21 - 2000z to Aug 22 - 0700z
Aug 22 - 1300z to Aug 23 - 0200z

Rules: <http://www.arrl.org/contests/months/aug.html>

~~~~~  
Colorado QRP Club - Summer QSO Party (SSB/CW) \*\*\* QRP CONTEST! \*\*\*

Aug 22- 1800z to 2400z

Rules: <http://home.sol.no/~janalme/htmlrules/cqcsummer.html>

~~~~~  
Hawaii QSO Party (CW/SSB) ... QRP Category

Aug 28 - 1600z to Aug 29 - 2200z

Rules: <http://home.sol.no/~janalme/htmlrules/qsohi.html>

~~~~~  
Ohio QSO Party (CW/SSB) ... QRP Category

Aug 28 - 1600z to Aug 29 - 0400z

Rules: <http://www.qsl.net/mrrc/oqp.html>

~~~~~  
South Dakota QSO Party (CW/SSB)... QRP Category

Aug 28 - 1600z to Aug 29 - 2200z

Rules: <http://www.arrl.org/contests/months/aug.html>
~~~~~

BUBBA Summer QRP Sprint (CW) \*\*\* QRP CONTEST! \*\*\*

Aug 29 - 1800z to 2200z

Rules: <http://www.arrl.org/contests/months/aug.html>

-----  
72/73 de  
Ken Newman - N2CQ  
Woodbury, NJ

N2CQ@ARRL.NET

~~~NJ QRP Club Home Page~~~  
<http://www.NJQRP.org>

~~~Club Callsign~~~  
WQ2RP

-----  
Date: Sat, 31 Jul 1999 10:10:31 -0400  
From: Tom M <tjmc@erols.com>  
To: Arjen.Raateland@vyh.fi, QRP-L <qrp-l@lehigh.edu>  
Subject: [46508] Re: LDG QRO tuner at QRP levels?  
Message-ID: <37A303D7.27CB7D8D@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

> Lots of replies via direct email. Everybody (=100%) agreed that the LDG  
> AT-11 autotuner (QRO model) will work OK at QRP levels as is without  
> mod's. One of the respondents tested on 40 m and found it would stop  
> working at 300 mW. I thought I let the rest of you know.  
Arjen,

The manual for the AT-11 states that it requires more than 5 w to tune,  
tho I have used it at 2w and it was fine. Haven't tested it lower.

LDG also has a QRP auto tuner, it is rated for .1w and 10w (30w max at  
50% duty). So it's better for the lower powers. I've test it at 250mW

and it functioned.

The three biggest things are ;

1) size... the QRP tuner is abt 1/4 the size of the AT-11.

2) power draw... the AT-11 pulls a min of 15mA , average of 250mA ,and max of 500mA (depends on the number of relays down).

The QRP draws min of 12mA, average of 75mA, and max of 190mA.

So, Average current draw is abt 30% for the smaller unit.

3) The QRP unit is cheaper.

Both units handle abt 10:1 swr max, but the QRP unit tunes slightly faster than the AT-11 ( QRP;av time 1.5 sec, AT-11;av time 2.5sec)

73,

Tom , aa2vk

-----  
Date: Sat, 31 Jul 1999 10:19:35 -0400  
From: sergio <sruiz@bright.net>  
To: unlisted-recipients;; (no To-header on input)  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [46509] Re: Musicians,cw etc.  
Message-ID: <37A305F7.B4E036FB@bright.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

N7YA@aol.com wrote:

>  
> In a message dated 7/30/99 8:40:02 PM Pacific Daylight Time,  
> rules@bellsouth.net writes:  
>  
> << An interesting side note: there's a company out in California  
> (San Francisco Bay Area) that used to hire a programmer on  
> the spot if they could show them that they could play a musical  
> instrument decently. >>  
>  
> Sheesh!! what am i doing still working on cabinets??  
>  
> 73...Adam, N7YA

whoa! now that would be score..

it's weird.. almost everyone in i know is a musician, from all walks..

classical to death metal.. and i can't get one of these people  
interested in radio.. they come by my house, see what i am working on..  
ask some questions.. then say, "dude.. you're weird.." and move on...

shucks..

--

---  
peace,  
sergio  
<http://www.bright.net/~sruiz>  
"the village buzz"

-----  
Date: Sat, 31 Jul 1999 10:20:12 -0700  
From: "Earl Andrews" <earlve3ab@igs.net>  
To: <qrp-1@Lehigh.edu>  
Subject: [46510] Re: insulated vs bare wire AND ALPHA DELTA ANT WIRE  
Message-ID: <199907311426.KAA92833@host.ott.igs.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

I dont think there is a whole lot of difference..BUT...I dont think there  
is much proof  
from a practical standpoint...i like the wire ALPHA DELTA uses in their  
sloper antenna.  
It is hard drawn..solid conductor with a very tough insulation...MY MAIN  
concern is  
using stranded wire that is badly oxidized. The strands would then not make  
a good  
contact with each other and god only knows what is going on as far as RF is  
concerned. I have a ham friend who beleives the his YAGI should be nice and  
shiney in order for RF to slide off it better. And there are products such  
as  
Marconi Antenna Wax ect!!!! Myself ...Im going to shop around and try and  
use the  
same wire that ALPHA Delta uses. They seem to make antenna products that  
are  
solidly built. I have some in front of me now...it is 12 AWG TYPE THHN OR  
THWN E14656 GASOLINE AND OIL RESISTANT. THIS may be an Industrial standard  
or  
Mil Spec Wire..but im going to try and get my hands on some..73 Earl VE3ab



-----  
Date: Sun, 1 Aug 1999 07:56:41 -0700  
From: "Kevin Asato" <kevin.k.asato@worldnet.att.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [46511] Re: OT: Musicians,cw etc.  
Message-ID: <00b301bedc2e\$11916460\$d509480c@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

I think it was Borland, located in the Scott's Valley area - State Highway 17 between San Jose and Santa Cruz. Their CEO was a sax player who readily realized the importance of music being a way to blow off steam and help form a cohesive bond among coworkers. Their jazz band used to perform at company functions and trade shows.

He had other nice benes like that until Microsquish put the company into the ethers.

Kevin K Asato  
KC6POB  
Customer Service Engineer  
PairGain Technologies  
800.638.0031 (tech support)  
888.769.4765 (pager)

-----Original Message-----

From: Randy Jouett <rules@bellsouth.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Date: Friday, July 30, 1999 8:39 PM  
Subject: Re: Musicians,cw etc.

>

>-----Original Message-----

>From: Pete Burbank <plburbank@kih.net>  
>To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
>Date: Friday, July 30, 1999 10:00 PM  
>Subject: Musicians,cw etc.

>

>

>Hi Pete/Gang,

>

>

>>Musicians also are able to be excellent programmers....



> > working at 300 mW. I thought I let the rest of you know.  
> Arjen,  
>  
> The manual for the AT-11 states that it requires more than 5 w to tune,  
> tho I have used it at 2w and it was fine. Haven't tested it lower.  
>  
> LDG also has a QRP auto tuner, it is rated for .1w and 10w (30w max at  
> 50% duty). So it's better for the lower powers. I've test it at 250mW  
> and it functioned.  
>  
> The three biggest things are ;  
> 1) size... the QRP tuner is abt 1/4 the size of the AT-11.  
> 2) power draw... the AT-11 pulls a min of 15mA , average of 250mA ,and  
> max of 500mA (depends on the number of relays down).  
> The QRP draws min of 12mA, average of 75mA, and max of 190mA.  
> So, Average current draw is abt 30% for the smaller unit.  
> 3) The QRP unit is cheaper.  
>  
> Both units handle abt 10:1 swr max, but the QRP unit tunes slightly  
> faster than the AT-11 ( QRP;av time 1.5 sec, AT-11;av time 2.5sec)  
>  
> 73,  
> Tom , aa2vk

--

|             |                                                                                 |
|-------------|---------------------------------------------------------------------------------|
| Bob Nielsen | Internet: nielsen@primenet.com                                                  |
| Tucson, AZ  | AMPRnet: w6swe@w6swe.ampr.org                                                   |
| DM42nh      | <a href="http://www.primenet.com/~nielsen">http://www.primenet.com/~nielsen</a> |

-----  
Date: Sat, 31 Jul 1999 10:15:25 -0500  
From: "Chuck Carpenter" <w5usj@globeco.net>  
To: earlve3ab@igs.net, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [46513] Re: insulated vs bare wire AND ALPHA DELTA ANT WIRE  
Message-ID: <3.0.2.32.19990731101525.007b5100@bosshog.globeco.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Earl et al,

Those are ratings used by the NEC (and probably others).

>12 AWG TYPE THHN OR  
>THWN E14656 GASOLINE AND OIL RESISTANT. THIS may be an Industrial >standard

T = Thermoplastic  
H = 75 degree C insulation

HH = 90 degree C insulation  
W = Wet locations  
N = Nylon jacket (or equivalent)

Wire with the ratings you indicated would be good stuff.  
Chuck Carpenter, EM22cv, Point, Rains County, Texas

-----  
Date: Sat, 31 Jul 1999 10:53:22 -0500  
From: "Jerry Decker N5RV" <n5rv@hex.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [46514] Re: insulated vs bare wire AND ALPHA DELTA ANT WIRE  
Message-ID: <002001bedb6c\$d353fbc0\$0401a8c0@n5rv.hex.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

I guess I need to rebuild my G5RV now. HIHI

de Jerry N5RV

----- Original Message -----  
From: Earl Andrews <earlve3ab@igs.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Saturday, July 31, 1999 12:20 PM  
Subject: Re: insulated vs bare wire AND ALPHA DELTA ANT WIRE

> I dont think there is a whole lot of difference..BUT...I dont think there  
> is much proof  
> from a practical standpoint...i like the wire ALPHA DELTA uses in their  
> sloper antenna.  
> It is hard drawn..solid conductor with a very tough insulation...MY MAIN  
> concern is  
> using stranded wire that is badly oxidized. The strands would then not  
make  
> a good  
> contact with each other and god only knows what is going on as far as RF  
is  
> concerned. I have a ham friend who beleives the his YAGI should be nice  
and  
> shiney in order for RF to slide off it better. And there are products such  
> as  
> Marconi Antenna Wax ect!!!! Myself ...Im going to shop around and try and  
> use the

> same wire that ALPHA Delta uses. They seem to make antenna products that  
> are  
> solidly built. I have some in front of me now...it is 12 AWG TYPE THHN OR  
> THWN E14656 GASOLINE AND OIL RESISTANT. THIS may be an Industrial standard  
> or  
> Mil Spec Wire..but im going to try and get my hands on some..73 Earl VE3ab  
>

-----  
Date: Sat, 31 Jul 1999 09:05:46 -0700  
From: Bob Hightower <ki7mn@extremezone.com>  
To: ku7y@dri.edu  
Cc: qrp-l@lehigh.edu  
Subject: [46515] Re: TiCK keyer info  
Message-ID: <199907311557.IAA02649@enterprise.extremezone.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 11:38 PM 7/30/99 -0700, you wrote:

>Hi All,  
>  
>I just wanted to tell a little story about something very  
>nice being done by a vendor to help QRP/QRPers.  
>  
>When Doug Hendricks was in New York he took the time to  
>see Brad and Gary of Embedded Research. Before he  
>left, Brad and Gary GAVE him 50 TiCK-2B keyers!  
>

Just a short note of clarification....there were 30...30...30...30 kits, so  
there are no more to be had. Brad and Gary dug out all they had and sent  
them, and all were snapped up quickly, and built.

No, I didn't keep 20 ratholed away :^).

72,73

Bob Hightower KI7MN

<http://www.extremezone.com/~ki7mn>

-----  
Date: Sat, 31 Jul 1999 12:27:03 -0300  
From: KD1YV <jimkd1yv@snet.net>  
To: qrp-l@lehigh.edu  
Subject: [46516] Re: Homebrew G5RV Biros  
Message-ID: <37A315C7.C20274A6@snet.net>

MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Dave Ackrill wrote:  
{snip}

> insulator and bind it in place). Then put spreaders down the feeder wires.  
> (empty biro cases, with holes drilled, or other spreaders) so that the  
> antenna looks like this:-

To whoever it was that asked what Biro's are, they are a brand of inexpensive stick pens sold in England (and Continental Europe, I think). They are similar to Bic pens.

Apparently, the empty cases make good spreaders for open-wire line, though I can't imagine who would keep that many dead pens around the shack :-)

--

73 de Jim, KD1YV      <http://www.qsl.net/kd1yv/>      QRP-L #1989  
Emergency Coordinator, Bethel, CT : Bulletin Manager, CT Section, ARRL  
Y2k isn't the programmers' fault. It was caused by  
the Business Managers trying to save a few bucks.

-----

Date: Sat, 31 Jul 1999 13:03:47 -0400  
From: "dor" <elbc@pivot.net>  
To: <nielsen@primenet.com>, "Low Power Amateur Radio Discussion" <qrp-  
l@Lehigh.EDU>  
Subject: [46517] Re: LDG QRO tuner at QRP levels?  
Message-ID: <000b01bedb76\$a9675d20\$9210a1d0@mine1>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi Gang,  
LDG has a web page @  
<http://ldgelectronics.com/>  
It's pretty informative.  
73 dave kc1di

-----  
Date: Sat, 31 Jul 1999 13:16:39 -0400  
From: Michael Bower <bowerm@ix.netcom.com>  
To: qrp-1 <qrp-1@lehigh.edu>  
Subject: [46518] Heathkit Green  
Message-ID: <37A32F77.2E4D345B@ix.netcom.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Several weeks ago, I asked about finding Heathkit Green. Several people responded and the hunt was on. I suspect that the colors that were given to me (Rustoleum colors) would have worked if I had found them. I did find a Rustoleum color that was the correct color but it was high gloss. Yech.

Soooo...

I took the cover off my HW-101 PS and took it to Home Depot. They put it into their little light sensing machine and, voila, I had the correct color.

This paint is so close in color that the following happened. The bozo who owned this radio before painted it RED. (It's a HW-8 and PS.) But he was lazy in that he didn't take the rubber feet off the bottom when he painted. I took them off and saw the original green. This paint matched exactly.

It's a latex paint. It is thick and takes two coats to get rid of the brush marks. Up really close you can probably see the brush marks but at a distance it looks great.

Two problems:

1) the finish on the radio is a "crackeled" type of finish. (Us old guys remember this as being very popular long time ago.) The closest Home Depot had was eggshell. It is a very matte finish but not crackeled.

2) Minimum amount - 1 quart. This is where you guys come into this.

Because I had to buy a quart and hardly used any of it, I am willing to pass some on.

So here's the deal.

If you will send me the following:

SMALL jar (like the size of model building paint or the next size up)  
two ziplock type bags (to seal the jar in)  
a nicely padded mailing box that I can re-use  
postage to send it back to you.  
Return address info

I will fill your jar and send it back to you.

Rules:

- 1) Don't get greedy. I don't intend this a way for you to repaint your rig.  
I intend it as a way for you to get some touch up pain without having to  
buy a quart like I did.
- 2) Be sure to include everything so that I can just fill the jar,  
repackage  
and send it back.
- 3) ???

If you want a larger batch, I can send you the "numbers" that Home Depot used to make it up so you can buy it from them in any quantity you want.

I do not want to make any money on this so just calculate the proper postage so I can put it back in the mail. If you want to send it as stamps, that is fine. Or cash. Check is a last resort as such a little amount isn't worth it. (I figure the postage at the MOST would be \$3.20 for USPS Priority mail.)

NOTE FOR INTERNATIONAL CALLS: Check with me before you send anything. I don't need or want the hassle of mailing international unless, again, I can just drop it in the mail.

Michael - N4NMR

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Date: Sat, 31 Jul 1999 11:59:34 -0600  
From: "Marshall Emm" <mgemm@mtechnologies.com>  
To: nielsen@primenet.com, qrp-l@lehigh.edu  
Subject: [46519] Re: LDG QRO tuner and random wire ants  
Message-ID: <199907311754.LAA26142@edison.chisp.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII



Content-transfer-encoding: 7BIT  
Content-Transfer-Encoding: 7BIT

Hi, Bob, Gang--

>>How does the LDG QRP tuner work with random wires? Does it handle a wide range of impedances? This sounds like it may be just what I need.<<

LDG doesn't spec it for random wires, and the reason makes sense-- it will work at some frequencies and not others, and undoubtedly there would be a lot of support issues. I sell them ( <http://www.MorseX.com/ldg> ) and perhaps have a little more latitude in talking about them, but I won't describe it as a random wire tuner either [g].

The LDG tuners use switched combinations of fixed inductors and caps. The tuning range is MUCH greater than the "dipole tuners" built into modern transceivers, but it is NOT as great as a manual tuner with air variable caps and a big tapped or rotary coil.

So, depending on the length of the random wire, you will find that the the tuner will match it on some frequencies but not others. I've found that often I can get a match by lengthening or shortening the wire by a few feet, or connecting the wire to a balun.

Hope this helps...

73  
Marshall Emm  
N1FN/VK5FN  
[n1fn@MorseX.com](mailto:n1fn@MorseX.com)  
Morse Express and Oak Hills Research  
"Everything for the Morse Enthusiast"  
<http://www.MorseX.com>  
<http://www.ohr.com>  
(303)752-3382  
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Date: Sat, 31 Jul 1999 14:35:52 -0700  
From: [w4bws@juno.com](mailto:w4bws@juno.com)  
To: [ku7y@dri.edu](mailto:ku7y@dri.edu)  
Cc: [qrp-1@Lehigh.EDU](mailto:qrp-1@Lehigh.EDU)  
Subject: [46520] Re: OT: Large Verticals for Motorhomes  
Message-ID: <19990731.143833.-215165.6.w4bws@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain

Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

I have used hustler to bug catcher to 101 inch whip on each end with tops connected by wire, one end grounded to RV body and other fed with tuner. I used 14 AVQ folded over and easily popped up at stopping place. I plan to put GAP vertical in place of 14AVQ. I tried one at field day and was impressed in it's good performance beating everything long haul and everything except the 101 inch whips on short haul. If I had to go to a shorter antenna, I would use the bug catcher on the rear ladder as it worked the best of small antennas and worked in motion. TS670 on 40 meters CW QRP with bugcatcher blew a lot of minds.  
DON W4BWS

On Thu, 29 Jul 1999 22:53:39 -0700 (PDT) Monte Stark <ku7y@dri.edu> writes:

>Hi Kory and all,  
>  
>I would also like to know what others are using for  
>antennas on RV's.  
>  
>I have a Yaesu "screwdriver" mounted on the ladder at the  
>back of my 30' 5th wheel but would like to do something  
>better than that.  
>  
>cul,  
>  
>73, Ron,       SOWP 5545M,  
>  
>.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
>....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
>....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....  
>

Don Sanders W4BWS  
694 E. Eau Gallie Blvd  
Satellite Beach ,FL 32937  
My favorite QRP rig glows in the dark

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Date: Sat, 31 Jul 1999 15:04:23 -0400  
From: RON TODD <k4wz@bellsouth.net>  
To: QRP POST <qrp-l@Lehigh.EDU>  
Subject: [46521] Sierra Sold

Message-ID: <37A348B6.55055F05@bellsouth.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

The Sierra is Sold.  
The OHR 400 Bands 80, 40, 30, and 20 . \$300 and with the OHR DD-1  
\$325  
still available

REPLY k4wz@bellsouth.net

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Date: Sat, 31 Jul 1999 13:23:06 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>  
Subject: [46522] FW8ZZ  
Message-ID: <Pine.LNX.3.95.990731132009.17657C-1000000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

WOW, WOW!.....thanks to Peter, I just worked the FW8ZZ dxpedition on  
21.290, listening 21.295 at 1920Z.....I first worked him with 100 watts  
using VE5RC and then using VE5QRP at 5 watts....good luck all!

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272  
A-1 Operator Club - 10/10# 944 - 128 Durham Drive, Regina, SK.,  
S4S-4Z2, Canada-AR Stamp Collector- "QRP! How sweet it is!"

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Date: Sat, 31 Jul 1999 13:07:08 -0700  
From: Jim Lowman <jmlowman@ix.netcom.com>  
To: qrp-l@lehigh.edu  
Subject: [46523] FS: Heathkit HW-8  
Message-ID: <4.1.19990731124356.0092ee40@ix.netcom.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Gang,

After buying Wilderness Sierra and K2 kits, I have decided to  
part with my HW-8.

Condition would be collector quality, except for:

- a small blemish to the green paint on the left side panel,  
closest to the front panel
- an unknown modification, in which two toggle switches were  
added on the rear panel; one two-position and one three-position

The front panel is pristine.

Sorry, I don't have documentation or any information on the  
mods, except that they were VERY well done.

Original manual will be included.

I'm not sure what to ask for the HW-8. Bry's Boneyard lists 1998  
prices ranging from \$125-170. Make me a fair offer, plus shipping.

72 de Jim - AD6CW

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Date: Sat, 31 Jul 1999 15:42:52 -0500  
From: "Randy Jouett" <rules@bellsouth.net>  
To: <ku7y@dri.edu>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [46524] Re: Electrical Contact Goo?  
Message-ID: <00a201bedb99\$6bfff1130\$d466d6d1@spock>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Monte Stark <ku7y@dri.edu>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Date: Friday, July 30, 1999 10:58 AM  
Subject: Re: Electrical Contact Goo?

Hi Ron/Gang,

>Hi All,

>

>30-40 years ago, when I was working in the oil fields, we  
>used a thread lubricant called something like Copper Coat.

>Had it by the 5 gal bucket fulls.

I believe you are talking about "pipe dope," which is the generic term that the oil field uses for thread lubricant. I go on drilling rigs around 2-3 times a year and do some software debugging, Ron, and the next time I'm out there I'll grab a small jar of the stuff, try it out, and let you and the gang know how it works. I'll also ask the Tool Pusher how much the stuff cost. Note, that if it has something to do with the oil biz, it's going to be EXPENSIVE :^).

The main reason they use the stuff is for electrical contact between joints of drill pipe, which are collectively known as "the drill string." If there are "any" thunder storms in the area, you can bet your last buck that the derrick on an oil rig is going to be the first thing to be hit. As you can imagine, 10,000 feet of metal pipe in the ground is the best ground rod in the world (especially if you're drilling in salt water), and that's why pipe-dope lubricant is impregnated with copper. They want to be sure that there's no way the ground will be broken in the middle of the drill string, possibly in the middle of a gas-producing formation :^).

I've had some "GREAT" QRP contacts out there on the top of the derrick at around 300', gang! The last time I was out there (off shore drilling rig, 250 miles off the coast of Louisiana in the Gulf of Mexico), I brought along my HW-8 and Ham Stick. I asked the drilling engineer (petroleum engineer and in charge of the rig) if it would be ok if I climbed to the top of the derrick and operated my ham rig. He put his hand on his chin, tilted his head in my direction, and looked at me like I was some kind of idiot. He asked me what I was going to do up there (crows nest on the derrick), and I told him that I was going to talk to people all over the states and world, and that height was important when I was operating with low power. He had heard about ham radio before, told me that it was ok, and asked if he could tag along. I told him "Sure!", of course :^).

The next thing you know, we're at the top connecting up my equipment and listening around on 20 Mtrs. I tuned around, found a SSB conversation, and let him

have the headphones. He asked where these guys were located, and I told him that one was in Maine, and that the other station was located in Germany. The only thing he could say was "WOW!" I made a couple of contacts and translated the CW for him, and he was nothing but grins from head to toe :^).

A few days later, he came by my programming shack (mud-logging trailer, for you oil-biz-savy dudes and dudettes) and asked if we could go back up to the top of the derrick, listen around, and talk to some countries with CW. I told him that I was busy, but I let him have the backpack. Needless to say, he was up there listening a LOT :^).

I mentioned that we really didn't have to climb all the way up to the top of the derrick and that we could operate from the mud-logging unit, but he didn't want anything to do with that. "You said that height was important, we have a 300' tower right here, and I'm going to use it while it's available!" :^) :^).

I explained to him that he could call his local Red Cross or get in touch with his local government and find out if there was a club or anything in his area, and I gave him my copies of QST and 73. Don't know if he ever became a ham, but he did say that he was going to build a radio "just like that one!" when he got home and look into getting his ham ticket.

Anywho, Ron, your "pipe dope" comment and the QRP radio association kind of clicked on that great memory, and I just thought that you and the gang would appreciate hearing it, I hope :^).

72/73,

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Randy Jouett, AB5NI

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End of QRP-L Digest 1534

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